## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Canceled)

2. (Currently amended) The apparatus according to claim 1, further

comprising A reflection screen apparatus in which a projection apparatus projects

an image based on received image data and an observer observes the image,

comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer;

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer;

and

a projected luminous flux incident angle detection section configured to detect

an angle of the projected light of the projection apparatus made incident on the

screen reflection surface, wherein

the light distribution correction section changes the state of the distribution direction of the light reflected on the screen reflection surface based on the angle detected by the projected luminous flux incident angle detection section.

3. (Original) The apparatus according to claim 2, further comprising a screen light distribution angle storage section configured to store a light distribution angle of the light reflected on the screen reflection surface, wherein

the light distribution correction section changes the state of the distribution direction of the light reflected on the screen reflection surface based on the angle detected by the projected luminous flux incident angle detection section and the light distribution angle storage section.

4. (Original) The apparatus according to claim 2, wherein the projected luminous flux incident angle detection section includes:

a condenser lens arranged on a front side of the screen reflection surface; and

one of a light spot position detection sensor and a light amount detection sensor, configured to detect a light condensed by the condenser lens, and

the projected luminous flux incident angle detection section detects the angle of the light made incident on the screen reflection surface based on one of a light

spot position detected by the light spot position detection sensor and an amount of a

light detected by the light amount detection sensor.

5. (Currently amended) The apparatus-according to claim-1, wherein A

reflection screen apparatus in which a projection apparatus projects an image based

on received image data and an observer observes the image, comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer, the screen reflection surface

has having a predetermined reflected light distribution angle, and

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer,

wherein the light distribution correction section changes the state of the

distribution direction of the light reflected on the screen reflection surface by

deforming the screen reflection surface to be a concave surface shape seen from the

observer.

(Original) The apparatus according to claim 5, wherein the light 6.

distribution correction section

- 4 -

includes deformation wires roughly arranged on both ends of the screen

reflection surface, and

deforms the screen reflection surface to be the concave surface shape along

the deformation wires.

7. (Currently amended) The apparatus according to claim 1, A reflection

screen apparatus in which a projection apparatus projects an image based on

received image data and an observer observes the image, comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer; and

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer,

wherein

the light distribution correction section includes:

a deformation pattern storage section configured to store a plurality of

kinds of deformation shape patterns of the screen reflection surface; and

a deformation pattern selection section configured to cause the

observer to select one of the deformation shape patterns stored by the deformation

pattern storage section, and

- 5 -

the light distribution correction section deforms a shape of the screen reflection surface based on the deformation shape pattern selected by the

deformation pattern selection section.

8. (Currently amended) The apparatus according to claim-1, further

comprising: A reflection screen apparatus in which a projection apparatus projects

an image based on received image data and an observer observes the image,

comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer;

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer;

an observer covering area setting section configured to set an observer

covering area that is information of a position in which the observer is present; and

a screen light distribution angle storage section configured to store the light

distribution angle of the light reflected on the screen reflection surface, wherein

the light distribution correction section includes:

a screen deformation amount calculation section configured to

calculate an optimal deformation amount of the screen reflection surface based on

- 6 -

the incident angle of the light on the screen reflection surface detected by the

projected luminous flux incident angle detection section, the observer covering area

set by the observer covering area setting section, and the light distribution angle

stored by the screen light distribution angle storage section;

a deformation amount display section configured to display the optimal

deformation amount calculated by the screen deformation amount calculation

section;

a deformation pattern storage section configured to store the

deformation shape patterns of the screen reflection surface; and

a deformation pattern selection section configured to cause the

observer to select one of the deformation shape patterns stored by the deformation

pattern storage section based on the optimal deformation amount displayed by the

deformation amount display section, and

the light distribution correction section changes the shape of the screen

reflection surface based on the deformation shape pattern selected by the

deformation pattern selection section.

9. (Currently amended) The apparatus according to claim 1, further

comprising A reflection screen apparatus in which a projection apparatus projects

- 7 -

**Applicant:** Shinichi Imade

**Application No.:** 10/808,154

an image based on received image data and an observer observes the image,

comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer;

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer;

and

a photoelectric conversion section configured to convert light projected on the

screen reflection surface into power, and supply the power to the light distribution

correction section, wherein

the light distribution correction section changes the state of the light

distribution direction on the screen reflection surface by using the power supplied

from the photoelectric conversion section.

10. (Currently amended) The apparatus according to claim 1, further

comprising A reflection screen apparatus in which a projection apparatus projects

an image based on received image data and an observer observes the image,

comprising:

-8-

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer;

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer;

and

an observer covering area setting section configured to set an observer

covering area that is information of a position in which the observer is present,

wherein

the light distribution correction section changes the state of the light

distribution direction on the screen reflection surface based on the observer covering

area set by the observer covering area setting section.

11. (Original) The apparatus according to claim 10, wherein

the observer covering area setting section includes:

at least one marker which emits a light to at least the screen reflection

surface; and

a marker light spot position detection sensor configured to receive the

light emitted from the marker to obtain a coordinate position of the marker relative

to the screen reflection surface, and

- 9 -

Applicant: Shinichi Imade

**Application No.:** 10/808,154

the observer covering area setting section sets the observer covering area

based on the coordinate position obtained by the marker light spot position

detection sensor.

12. (Original) The apparatus according to claim 11, wherein the observer

covering area setting section sets a space surrounded with a plurality of marker

coordinates obtained by the marker light spot position detection sensor as the

observer covering area.

13. (Original) The apparatus according to claim 11, wherein the observer

covering area setting section sets a space that has a predetermined spatial spread

including the marker coordinate obtained by the marker light spot position

detection sensor as the observer covering area.

14. (Currently amended) The apparatus according to claim 1, A reflection

screen apparatus in which a projection apparatus projects an image based on

received image data and an observer observes the image, comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer; and

- 10 -

a light distribution correction section configured to change a state of a distribution direction of a light reflected on the screen reflection surface so as to increase a diffused light reflected on the screen reflection surface to the observer;

wherein the light distribution correction section:

includes at least one photodetection sensor configured to receive the light reflected on the screen reflection surface to detect an amount thereof, and

changes the state of the light distribution direction on the screen reflection surface in such a way that a total amount of the light detected by the photodetection sensor becomes maximum.

- 15. (Currently amended) The apparatus according to claim 1, A reflection screen apparatus in which a projection apparatus projects an image based on received image data and an observer observes the image, comprising:
- a screen reflection surface which visibly diffuses and reflects the image projected by the projection apparatus to the observer; and
- a light distribution correction section configured to change a state of a distribution direction of a light reflected on the screen reflection surface so as to increase a diffused light reflected on the screen reflection surface to the observer;

wherein the light distribution correction section:

includes a plurality of photodetection sensors configured to receive the

light reflected on the screen reflection surface to detect an amount thereof, and

changes the state of the light distribution direction on the screen

reflection surface in such a way that a difference in amounts of lights detected by

the plurality of photodetection sensors becomes minimum.

16. (Currently amended) The apparatus according to claim 1, A reflection

screen apparatus in which a projection apparatus projects an image based on

received image data and an observer observes the image, comprising:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer; and

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer;

wherein a plurality of movable micro-diffusion reflection surfaces are

disposed on the screen reflection surface, and

wherein the light distribution correction section changes the state of the

direction of the light reflected on the screen reflection surface by moving the micro-

diffusion reflection surfaces.

Application No.:

17. (Original) The apparatus according to claim 16, wherein the micro-

diffusion reflection surfaces hold deformation by electrostatic forces.

18. (Previously presented) A projection system comprising:

projection apparatus which projects an image based on received image data;

reflection screen apparatus in which an observer observes the image, the

reflection screen apparatus including:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer; and

a light distribution correction section configured to change a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer,

the light distribution correction section changing the state of the light distribution

direction and outputting image correction information in accordance with an

amount of the change; and

an image correction section configured to execute image correction for the

image data sent to the projection apparatus based on the image correction

information from the light distribution correction section.

- 13 -

19. (Original) The system according to claim 18, wherein the image

correction executed by the image correction section is distortion correction of an

image.

20. (Original) The system according to claim 18, wherein the image

correction executed by the image correction section is nonuniform luminance

correction of an image.

21. (Canceled)

22. (Previously presented) A projection system comprising:

projection apparatus which projects an image based on received image data;

reflection screen apparatus in which an observer observes the image, the

reflection screen apparatus including:

a screen reflection surface which visibly diffuses and reflects the image

projected by the projection apparatus to the observer; and

light distribution correction means for changing a state of a

distribution direction of a light reflected on the screen reflection surface so as to

increase a diffused light reflected on the screen reflection surface to the observer,

the light distribution correction means changing the state of the light distribution

- 14 -

direction and outputting image correction information in accordance with an amount of the change; and

image correction means for executing image correction for the image data sent to the projection apparatus based on the image correction information from the light distribution correction means.